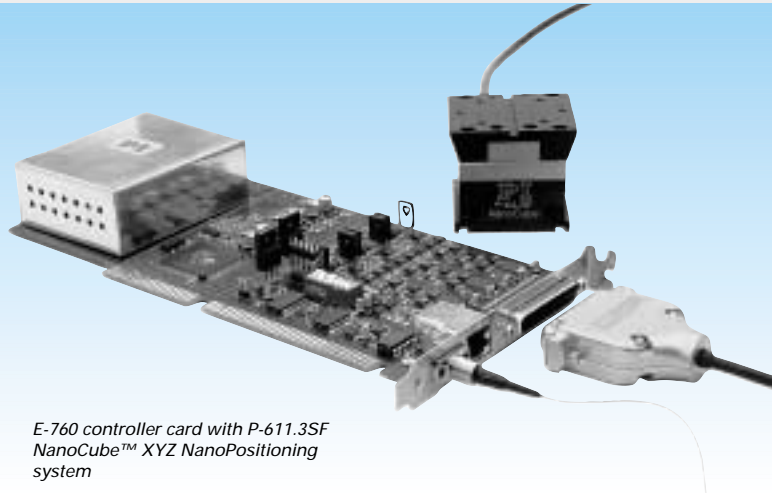


E-760

NanoCube™ Controller Card with Automatic Alignment Functions



E-760 controller card with P-611.3SF NanoCube™ XYZ NanoPositioning system

- Specially Designed for P-611 NanoCube™ and F-206 HexAlign™ 6D Alignment System
- Built-in Optical Metrology for Automatic Alignment
- 3 x 9 W Peak Power
- Position Servo-Control

matic alignment of photonics components. All functions are accessible via the PC-bus interface. In addition, there is an analog input for position control and an FC connector for the optical metrology.

The E-760 is a PZT amplifier and position servo-controller card that was especially designed for the P-611 NanoCube™ XYZ NanoAlignment system (see pages 2-36 and 8-16). In addition to three low-noise amplifiers and position servo-controller circuits, it is equipped with **optical metrology** and I/O for **auto-**

Ordering Information

E-760.3SV
NanoCube™ Controller Card with Automatic Alignment Functions, Vis. Detector

E-760.3Si
NanoCube™ Controller Card with Automatic Alignment Functions, IR Detector

Custom Designs for Volume Buyers

Technical Data

Models	E-760.3SV, E-760.3Si
Function	Power amplifier & sensor / position servo-control of P-611 NanoCube™ systems with additional optical metrology and I/O for automated alignment
Channels	3
Amplifier	
Maximum output power	9 W (see page 6-40)
Average output power	3 W
Peak output current < 5 ms	90 mA
Average output current > 5 ms	30 mA
Current limitation	Short-circuit proof
Voltage gain	10 ±0.1
Polarity	Positive
Control input voltage	-2 to +12 V
Output voltage	-20 to 120 V
PZT voltage output socket	25 pin sub-D on rear
Analog in/out socket	8 pin network connector on rear
Dimensions	PC Card (ISA)
Position Servo-Control	
Sensor Type	Strain Gauge
Servo Characteristics	P-I (analog) + notch filter
Sensor socket	25 pin sub-D on rear (same as PZT voltage)
Optical Metrology	IR detector (E-760.3Si), Vis detector (E-760.3SV), input via FC connector